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Trabajo: Cuantiles

Materia: Estadística Inferencial

Grado: Cuarto Cuatrimestre

Grupo: LPS19 SSC1022-A

Comitan de Dominguez Chiapas a

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Estadística

Fecha
02 Dic 23

Edades	Px	Acumulado
10-20	10	10
20-30	12	22
30-40	15	37
40-50	14	51
50-60	9	60

$$C = L_i + \frac{F - F_{ca}}{f_i}$$

$$C = 20 - 24 - \frac{22 \cdot 10}{15}$$

$$C = 20 + \frac{20}{15}$$

$$C = 20 + 1.3$$

$$C = 21.3 \approx 21$$

a) 40% por debajo

$$40\% \Rightarrow D_4 = \frac{4 \cdot 60}{10}$$

$$D_4 = 24$$

b) 81% por encima

$$81\% \Rightarrow P_{81} = \frac{kn}{c} \Rightarrow \frac{81 \cdot 60}{100}$$

$$P_{81} = 48.6 \approx 49$$

$$C = 20 + \frac{49 - 22}{15} \cdot 10$$

$$C = 20 + \frac{27 \cdot 10}{15}$$

$$C = 20 + 18 = 38$$

$$38 - 50$$

c) 32% - 61%

$$32\% \Rightarrow P_{32} = \frac{kn}{c}$$

$$\frac{32 \cdot 60}{100}$$

$$P_{32} = 19.2 \approx 19$$

$$C = 10 + \frac{19 - 10}{12} \cdot 10$$

$$C = 10 + \frac{9 \cdot 10}{12}$$

$$C = 10 + \frac{90}{12} \Rightarrow C = 10 + 7.5 = 17.5 = 18$$

$$61\% = P_{61} = \frac{kn}{c}$$

$$\frac{61 \cdot 60}{100}$$

$$P_{61} = 36.6 \approx 37$$

$$C = 20 + \frac{37 - 22}{15} \cdot 10$$

$$C = 20 + \frac{37 - 22}{15} \cdot 10$$

$$C = 20 + \frac{15 \cdot 10}{15}$$

$$C = 20 + 10 = 30$$

$$C = 30$$